

Substitute for form 1449A/PTO		Application Number	10/827,572
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANTS <i>(Use as many sheets as necessary)</i>		Filing Date	April 19, 2004
		First Named Inventor	Lowell L. Wood, Jr.
		Group Art Unit	3763
		Examiner Name	Catherine S. Williams
Sheet 1 of 19	Attorney Docket Number	0803-004-001A-000000	

U.S. PATENT DOCUMENTS				
Examiner Initials [*]	Cite No. ¹	U.S. Patent Number Number-Kind Code ² (if known)	Issue Date (MM-DD-YYYY)	Name of Patentee
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	AY	6,735,475 B1	05-11-2004	Whitehurst et al.

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	BA	6,679,893 B1	01-20-2004	Tran, Quang Q.
	BB	6,673,363 B2	01-06-2004	Luo et al.
	BC	6,669,683 B2	12-30-2003	Santini, Jr. et al.
	BD	6,632,216 B2	10-14-2003	Houzego et al.
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	BX	6,170,488 B1	01-09-2001	Spillman, Jr., et al.

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Examiner Initials [*]	Cite No. ¹	U.S. Patent Number Number-Kind Code ² (if known)	Issue Date (MM-DD-YYYY)	Name of Patentee
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	BZ	6,159,230	12-12-2000	Samuels, Shaun L.W.
	CA	6,134,474	10-17-2000	Fischell et al.
	CB	6,128,538	10-03-2000	Fischell et al.
	CC	6,111,520	08-29-2000	Allen et al.
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	CW	5,386,741	02-07-1995	Rennex, Brian G.

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Examiner Initials [*]	Cite No. ¹	U.S. Patent Number Number-Kind Code ² (if known)	Issue Date (MM-DD-YYYY)	Name of Patentee
	CX	5,338,625	08-16-1994	Bates et al.
	CY	5,337,732	08-16-1994	Grundfest et al.
	CZ	5,335,657	08-09-1994	Terry, Jr. et al.
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	DB	5,279,607	01-18-1994	Schentag et al.
	DC	5,269,303	12-14-1993	Wernicke et al.
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U.S. PATENT APPLICATION DOCUMENTS				
Examiner Initials [*]	Cite No. ¹	U.S. Patent Application Publication Number Number-Kind Code ² (if known)	Publication Date (MM-DD-YYYY)	Name of Applicant
	DF	2006/0119304 A1	06-08-2006	Farritor et al.
	DG	2006/0004395 A1	01-05-2006	Chiel et al.
	DH	2005/0278020 A1	12-15-2005	Wang et al.
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	DP	2005/0113460 A1	05-26-2005	Glick, Gary D.
	DQ	2005/0079132 A1	04-14-2005	Wang et al.

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	DR	2005/0069925 A1	03-31-2005	Ford et al.
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	EB	2002/0090388 A1	07-11-2002	Humes et al.

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	EC	JP 2005-74229	03-24-2005	Japan
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	EE	WO 99/20335	04-29-1999	Samuels, Shaun L.
	EF	WO 98/14243	04-09-1998	Chen et al.

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NON PATENT LITERATURE DOCUMENTS			
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	EG	“001_08 Comparison of Capsule Cameras: M2A (Given Imaging) vs. NORIKA3 (RF System lab)” RF System lab; bearing dates of 2001-2004; pp. 1-2; located at http://www.rfnorika.com/eng/system/sys_008.html ; printed on 5/04/2006	
	EH	“A Hydrogel-based CO2 sensor”; BIOS – The lab on a chip group; bearing a date of 08/29/2005; pp. 1-2; located at: http://bios.ewi.utwente.nl/research/analysissystemssenors/ahydrogelbased.doc/index.html ; printed on 04/25/2006; University of Twente; the Netherlands	
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	EJ	“Agile new plastics change shape with heat”; MIT News Office; November 20, 2006; pp. 1-4; Massachusetts Institute of Technology; printed on 11/22/2006; located at http://web.mit.edu/newsoffice/2006/triple-shape.html	
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	EL	ANANTHAWAMY, ANIL; “First robot moved by muscle power”; bearing a date of 2/27/2004; pp. 1-3; New Scientist; located at http://www.newscientist.com/article.ns?id=dn4714 ; printed on 9/12/2006	
	EM	ASARI, VIJAYAN K.; KUMAR, SANJIV; KASSIM, IRWAN M.; “A Fully Autonomous Microrobotic Endoscopy System”; Journal of Intelligent and Robotic Systems; bearing a date of 2000; pp. 325-341; Volume 28; Kluwer Academic Publishers	
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	EP	BEZROUK, A.; HANUŠ, J.; ZÁHORA, J.; "TEMPERATURE CHARACTERISTICS OF NITINOL SPIRAL STENTS"; SCRIPTA MEDICA (BRNO); bearing dates of 08/2005, 10/2005; pp. 219-226; Vol. 78, No. 4	
	EQ	BIALEK, WILLIAM; RIEKE, FRED; DE RUYTER VAN STEVENINCK, ROB R.; WARLAND, DAVID; "Reading a Neural Code"; Science; bearing a date of 06/28/1991; pp. 1854-1857; Vol. 252	
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		First Named Inventor	Lowell L. Wood, Jr.
		Group Art Unit	3763
		Examiner Name	Catherine S. Williams
Sheet 8	of 19	Attorney Docket Number	0803-004-001A-000000

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	EX	CHRISTENSEN, BILL; "Propulsion System for 'Fantastic Voyage' Robot"; Technovelgy.com; pp. 1-4; Technovelgy.com; located http://www.technovelgy.com/ct/Science-Fiction-News.asp?NewsNum=811 ; printed on 1/4/2007	
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	FE	FANG, ZI-PING; MORTIMER, J. THOMAS; "Selective Activation of Small Motor Axons by Quasitrapezoidal Current Pulses"; IEEE Transactions on Biomedical Engineering; bearing a date of 02/1991; pp. 168-174; Vol. 38, No. 2; IEEE	
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		Group Art Unit	3763
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	FL	HAGLEITNER, C.; HIERLEMANN, A.; LANGE, D.; KUMMER, A.; KERNES, N.; BRAND, O.; BALTES, H.; "Smart single-chip gas sensor microsystem"; Nature; November 15, 2001; pp. 293-296; Vol. 414; Macmillan Magazines Ltd.; www.nature.com	
	FM	HANNA, DARRIN M.; OAKLEY, BARBARA A.; STRYKER, GABRIELLE A.; "Using a System-on-Chip Implantable Device to Filter Circulating Infected Cells in Blood or Lymph"; IEEE Transactions on Biomedical Engineering; bearing dates of January 25, 2003, March 2003; pp. 6-13; Vol. 2, No. 1; IEEE	
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	FT	"Japanese Researchers Unveil Medical Mini Robot"; Yahoo! News; bearing a date of 03/08/2007; pp. 1-2; Yahoo! Inc.; located at: http://news.yahoo.com/s/afp/20070308/hl_afp/afplifestyleshealthscience ; printed on 03/08/2007	
	FU	JI, JIN; NAJAFI, KHALIL, WISE, KENSALL D.; "A Low-Noise Demultiplexing System for Active Multichannel Microelectrode Arrays"; IEEE Transactions of Biomedical Engineering; bearing a date of 01/1991; pp. 77-81; Vol. 38, No. 1; IEEE	
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	GB	LOEB, GERALD E.; PECK, RAYMOND A.; MOORE, WILLIAM H.; HOOD, KEVIN; "BION System for Distributed Neural Prosthetic Interfaces"; Medical Engineering and Physics; bearing a date of 2001; pp. 9-18; Vol. 23; Elsevier Science Ltd.; located at: www.elsevier.com/locate/medengphy	
	GC	LU, ZHAO; MARTEL, SYLVAIN; "Preliminary Investigation of Bio-carriers Using Magnetotactic Bacteria"; Proceedings of the 28 th IEEE EMBS Annual International Conference; bearing dates of 8/30/2006-9/03/2006 and 2006; pp. 3415-3418; IEEE	
	GD	MANGAN, ELIZABETH V.; KINGSLEY, DAN A.; QUINN, ROGER D.; CHIEL, HILLEL J.; "Development of a Peristaltic Endoscope"; IEEE International Conference on Robotics & Automation 2002; pp. 1-6; located at http://biorobots.cwru.edu/publications/ICRA02_Mangan_Endoscope.pdf	
	GE	MARKS, WILLIAM B.; LOEB, GERALD E.; "Action Currents, Internodal Potentials, and Extracellular Records of Myelinated Mammalian Nerve Fibers Derived from Node Potentials"; Biophysical Journal; 1976; pp. 655-668; Vol. 16	
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	GJ	MATSUI, TAKEMI; MATSUMURA, KOUJI; HAGISAWA, KOUSUKE; ISHIHARA, MASAYUKI; ISHIZUKA, TOSHIAKI; SUZUKI, MINORU; KURITA, AKIRA; KIKUCHI, MAKOTO; "A Novel Ferromagnetic Thermo-Stent for Plaque Stabilization That Self-Regulates the Temperature"; IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING; bearing dates of 06/2002 and 2002; pp. 621-623; Vol. 49, No. 6; IEEE	
	GK	MCNEAL, DONALD R.; "Analysis of a Model for Excitation of Myelinated Nerve"; IEEE Transactions on Biomedical Engineering; bearing a date of 07/1976; pp. 329-337; Vol. BME-23, No. 4	
	GL	MEIER, P.; OBERTHÜR, S.; LANG, M.; "Development of a compliant device for minimally invasive surgery"; Proceedings of the 28 th IEEE EMBS Annual International Conference; bearing dates of 8/30/2006-9/03/2006 and 2006; pp. 331-334; IEEE	
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	GQ	MURTHY, S. NARASIMHA; HIREMATH, SHOBHA RANI R.; "Physical and Chemical Permeation Enhancers in Transdermal Delivery of Terbutaline Sulphate"; AAPS PharmSciTech; bearing a date of 2001; pp. 1-5; Vol. 2001, 2(1); Technical Note 1; located at http://www.pharmscitech.com/	

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANTS <i>(Use as many sheets as necessary)</i>		Filing Date	April 19, 2004
		First Named Inventor	Lowell L. Wood, Jr.
		Group Art Unit	3763
		Examiner Name	Catherine S. Williams
Sheet	14	of	19
		Attorney Docket Number	0803-004-001A-000000

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	GR	NAKAYAMA, YASUHIDE; JI-YOUN, KIM; NISHI, SHOGO; UENO, HIKARU; MATSUDA, TAKEHISA; "Development of high-performance stent: gelatinous photogel-coated stent that permits drug delivery and gene transfer"; <i>J Biomed Mater Res</i> ; bearing dates of 11/13/2000, 04/23/2001, 05/10/2001 and 2001; pp. 559-566; Vol. 57; John Wiley & Sons, Inc.	
	GS	NAQVI, NASIR H.; RUDRAUF, DAVID; DAMASIO, HANNA; BECHARA, ANTOINE; "Damage to the Insula Disrupts Addiction to Cigarette Smoking"; <i>Science</i> ; bearing a date of 01/26/2007; pp. 531-534; Vol. 315, No. 531; located at: www.sciencemag.org ; printed on 01/25/2007	
	GT	NETO, A.M. FIGUEIREDO; GODINHO, M.H.; TOTH-KATONA, T.; PALFFY-MUHORAY, P.; "Optical, Magnetic and Dielectric Properties of Non-Liquid Crystalline Elastomers Doped with Magnetic Colloids"; <i>Brazilian Journal of Physics</i> ; Bearing a date of March 2005; pp. 184-189; Volume 35, Number 1	
	GU	"New Medical Device Combines Wireless and MEMS Technology"; Georgia Institute of Technology; pp. 1-4; <i>PhysOrg.com</i> ; located at: http://www.physorg.com/printnews.php?newsid=10533 ; printed on 02/20/2006	
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	GY	OWEISS, KARIM G.; ANDERSON, DAVID J.; "A New Technique for Blind Source Separation Using Subband Subspace Analysis in Correlated Multichannel Signal Environments"; bearing a date of 2001; pp. 2813-2816; IEEE	

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		First Named Inventor	Lowell L. Wood, Jr.
		Group Art Unit	3763
		Examiner Name	Catherine S. Williams
Sheet 15 of 19	Attorney Docket Number	0803-004-001A-000000	

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	HA	PCT International Search Report App. No.: PCT/US05/33475; dated 05 September 2006; pp. 1-2.	
	HB	PECKHAM, P. HUNTER; KNUTSON, JAYME S.; "Functional Electrical Stimulation for Neuromuscular Applications"; Annual Review Biomedical Engineering; bearing a date of 2005; pp. 327-360; Vol. 7; Annual Reviews	
	HC	RATTAY, F.; "The Basic Mechanism for the Electrical Stimulation of the Nervous System"; Neuroscience; 1999; pp. 335-346; Vol. 98. No. 2; Elsevier Science Ltd; printed on 03/15/2007	
	HD	RATTAY, FRANK, ABERHAM, MATTHIAS; "Modeling Axon Membranes from Functional Electrical Stimulation"; IEEE Transactions on Biomedical Engineering; bearing a date of 12/1993; pp. 1201-1209; Vol. 40, No. 12; IEEE	
	HE	RATTAY, FRANK; "Analysis of Models for Extracellular Fiber Stimulation"; IEEE Transactions on Biomedical Engineering; bearing a date of 07/1989; pp. 676-682; Vol. 36, No. 7; IEEE	
	HF	"Remote-Control Electrostimulation Capsule"; Popular Science; bearing dates of 2002 and 2003; pp. 1-2; located at http://www.popsci.com/popsci/brown/2003/article/0_18881_537028_00.html ; printed on 5/04/2006	
	HG	"Researchers: Squid-Inspired Vortex Generators Could Mean Better Propulsion for Unmanned Underwater Vehicles"; UnderwaterTimes.com; 12/12/2006; pp. 1-2; UnderwaterTimes.com; printed on 01/04/2007; located at http://www.underwatertimes.com/print.php?article_id=51030782641	
	HH	RICE, MIKE; "Implantable Neurostimulation Device Market Poised for Explosive Growth"; Future Fab International; 1/7/2006; pp. 1-4; printed on 10/6/2006; located at http://www.future-fab.com/documents.asp?d_ID=3725	

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	HI	RICE, MIKE; "New Products, Emphasis on Miniaturization Driving Medical Device Innovation"; bearing a date 8/23/2006; pp. 1-3; Advantage Business Media; located at ShowPR.asp?PUBCODE=046&ACCT=0006109&ISUE=0603&RELTYPE=PR&PRODCODE=0790&PRODLETT=A">http://www.mdtmag.com/scripts>ShowPR.asp?PUBCODE=046&ACCT=0006109&ISUE=0603&RELTYPE=PR&PRODCODE=0790&PRODLETT=A ; printed on 8/23/2006	
	HJ	RIEDMÜLLER, J.; BOLZ, A.; REBLING, H.; SCHALDACH, M.; "Improvement of Stimulation and Sensing Performance of Bipolar Pacemaker Leads"; IEEE Eng. Med. Biol. Soc.; 1992; pp. 2364-2365; IEEE	
	HK	ROBINSON, DAVID A.; "The Electrical Properties of Metal Microelectrodes"; Proceedings of the IEEE; bearing a date of 06/1968; pp. 1065-1071; Vol. 56, No. 6	
	HL	ROUSCHE, PATRICK J.; PELLINEN, DAVID S.; PIVIN, DAVID P.; WILLIAMS, JUSTIN C.; VETTER, RIO J.; KIPKE, DARYL R.; "Flexible Polyimide-Based Intracortical Electrode Arrays with Bioactive Capability"; IEEE Transactions on Biomedical Engineering; bearing a date 03/2001; pp. 361-371; Vol. 48, No. 3; IEEE	
	HM	RUTTEN, WIM; MOUVEROUX, JEAN-MARIE; BUITENWEG, JAN; HEIDA, CISKA; RUARDIJ, TEUN; MARANI, ENRICO; LAKKE, EGBERT; "Neuroelectronic Interfacing with Cultured Multielectrode Arrays Toward a Cultured Probe"; Proceedings of the IEEE; bearing a date of 07/2001; pp. 1013-1029; Vol. 89, No. 7; IEEE	
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	HQ	SENEL, SEVDA; HINCAL, A. ATILLA; "Drug permeation enhancement via buccal route: possibilities and limitations"; Journal of Controlled Release; bearing a date of 2001; pp. 133-144; Vol. 72 (2001); Elsevier; located at www.elsevier.com/locate/jconrel	
	HR	SERRUYA, MIJAIL D.; HATSOPOULOS, NICHOLAS G.; PANINSKI, LIAM; FELLOWS, MATTHEW R.; DONOGHUE, JOHN P.; "Brief Communications: Instant Neural Control of a Movement Signal"; Nature; bearing a date of 03/14/2002; pp. 141-142; Vol. 416; Macmillan Magazines Ltd; located at: www.nature.com	
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	HU	SHAHINPOOR, MOHSEN; KIM, KWANG J.; "Ionic polymer-metal composites: IV. Industrial and medical applications; Smart Materials and Structures; 2005; pp. 197-214; Vol. 14; Institute of Physics Publishing	
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	HW	SNOEK, GJ; IJZERMAN, MJ; IN 'T GROEN, FACG; STOFFERS, TS; ZILVOLD, G; "Use of the NESS Handmaster to Restore Handfunction in Tetraplegia: Clinical Experiences in Ten Patients"; Spinal Cord; bearing a date of 2000; pp. 244-249; Vol. 38; International Medical Society of Paraplegia	
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	HY	STOECKEL, DIETER; PELTON, ALAN; DUERIG, TOM; "Self-expanding nitinol stents: material and design considerations"; European Radiology; bearing dates of 01/28/2003, 05/22/2003, 07/01/2003, 09/03/2003, 02/2004 and 2004; pp. 292-301(1-2); Vol. 14, No. 2; Springer-Verlag GmbH-SpringerLink - Article; located at: http://www.springerlink.com/1bcegg455gtjifseqqptyb43m/ajpy/home/contribution.asp?referrer=parent&backto=issue,17,26;journal,27,147;browsepublicationsresults,444,1551;printed on 02/22/2006	
	HZ	STRAUSS, BRADLEY H., M.D., PH.D.; LI, CHRIS, M.D.; WHITTINGHAM, HEATHER A., M.Sc; TIO, FERMIN O., M.D.; KUTRYK, MICHAEL J.B., M.D., PH.D.; JANICKI, CHRISTIAN, PH.D.; SPARKES, JOHN, D., M.Sc.; TURNLUND, TODD, B.Sc.; SWEET, WILLIAM L., M.D.; "LATE EFFECTS OF LOW-ENERGY GAMMA-EMITTING STENTS IN A RABBIT ILLIAC ARTERY MODEL"; Int. J. Radiation Oncology Biol. Phys.; bearing dates of 10/23/2001, 05/13/2002 and 05/15/2002 and 2002; pp. 551-561; Vol. 54, No. 2; Elsevier Science Inc.	
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	IB	TAYLOR, DAWN M.; HELMS TILLERY, STEPHEN I.; SCHWARTZ, ANDREW B.; "Research Article: Direct Cortical Control of 3D Neuroprosthetic Devices"; Science; bearing a date of 06/07/2002; pp. 1829-1832; Vol. 296; located at: www.sciencemag.org	
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	ID	"Trying to control pain can be a double-edged sword, say scientists"; PhysOrg.com; printed on 11/2/2006; pp. 1-2; located at http://www.physorg.com/printnews.php?newsid=81599312	
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Substitute for form 1449A/PTO		Application Number	10/827,572
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANTS <i>(Use as many sheets as necessary)</i>		Filing Date	April 19, 2004
		First Named Inventor	Lowell L. Wood, Jr.
		Group Art Unit	3763
		Examiner Name	Catherine S. Williams
Sheet 19 of 19		Attorney Docket Number	0803-004-001A-000000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	IF	TWARDOWCH, U.M.; "Integrity of Ultramicro-Stimulation Electrodes Determined from Electrochemical Measurements"; Journal of Applied Electrochemistry; bearing a date of 1994; pp. 835-857; Vol. 24; Chapman & Hall	
	IG	WARLAND, DAVID K.; REINAGEL, PAMELA; MEISTER, MARKUS; "Decoding Visual Information from a Population of Retinal Ganglion Cells"; bearing a date of 1997; pp. 2336-2350; The American Physiological Society	
	IH	WEIS, ROLF; MÜLLER, BERNT; FROMHERZ, PETER; "Neuron Adhesion on a Silicon Chip Probed by an Array of Field-Effect Transitors"; Physical Review Letters; bearing a date of 01/08/1996; pp. 327-330; Vol. 76, No. 2; The American Physical Society	
	II	WESSBERG, JOHAN; STAMBAUGH, CHRISTOPHER R.; KRALIK, JERALD D.; BECK, PAMELA D.; LAUBACH, MARK; CHAPIN, JOHN K.; KIM, JUNG; BIGGS, S. JAMES; SRINIVASAN, MANDAYAM A.; NICOLELIS, MIGUEL A.L.; "Letters to Nature: Real-Time Prediction of Hand Trajectory by Ensembles of Cortical Neurons in Primates"; Nature; bearing a date of 11/16/2000; pp. 361-365; Vol. 408; Macmillan Magazines Ltd; located at: www.nature.com	
	IJ	WHITE, DAVE; "Mini Robot Explores, Gives you Medicine from Within"; Mobile Magazine; bearing a date of 02/27/2007; p. 1; located at: http://www.mobilemag.com/content/100/313/C11869/ ; printed on 03/08/2007	
	IK	YUSA, GO; MURAKI, KOJI; TAKASHINA, KEI; HASHIMOTO, KATSUSHI; HIRAYAMA, YOSHIRO; "Controlled multiple quantum coherences of nuclear spins in a nanometre-scale device"; Nature; April 21, 2005; pp. 1001-1005; Vol. 434; 2005 Nature Publishing Group; www.nature.com/nature	
	IL	"Zyvex NanoEffect Microgrippers"; Nanotechnology at Zyvex; printed on 12/7/2006; pp. 1-2; located at http://www.zyvex.com/Products/Grippers_Features.html	
	IM	"Zyvex NanoEffect Microgrippers"; Zyvex.com; bearing a date of 2006; pp. 1-2; Zyvex Corporation	

OMB 0651-0031

Examiner Signature	/Victoria P. Campbell/	Date Considered	19 June 2009
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